See reverse side for additional information.

Interogency Report Control Nu 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

2. HEADC

FORM APPROVED OMB NO 0579-0036

0 0379-0030

red with USDA

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

100y 3 0 2000

COLUMBIA UNIVERSITY

include 21-R-0082, Cust Id 445

630 W 168TH ST NEW YORK NEW YORK, NY 10032

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets it necessary.)

FACILITY LOCATIONS (Siles)

Black Bldg & Eye Institute Annex, 630 W. 168th

New York, New York 10032

A. Animals Covered By The Animal Wellare Regulations	8 Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the ammals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate aneisheid, analgest, or tranquitizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F. TOTAL NO OF ANIMAL: (Cols. C 1 D + E)
4. Dogs	7	45	565	0	610
5. Cats	0	0	22	0	22
6. Guinea Pigs	0	51	105	0	156
7. Hamsters	0	0	35	0	35
8. Rabbits	12	79	95	0	174
9. Non-human Primates	6	0	42	0	42
10. Sheep	0	0	21	0	21
11. Pigs	0	O	44	0	44
12. Other Farm Animals					
Bovine	0	0	29	0	29
13. Other Animals					
Ferrets	0	24	0	00	24
Frogs	0	21	322	0	343

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and franquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures
- 3) This libertity is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the testimismal Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explication of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of annual care and use.

(Chief Executive Office or Legally Responsible Institutional Official) (activity that the above is from, correct, and complete (7 U.S.C. Section 2143)								
SIGN,	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DA	TE SIGNED					

SUMMARY OF EXCEPTIONS

October 1, 1999 to September 31, 2000

- 1. In a single protocol, 12 rhesus monkeys must be chaired for periods greater than 12 hours and less the 24 hours. This is an exception to the standard set by the Laboratory Animal Welfare Act. The Act states that nonhuman primates must be given the opportunity for 1 hour of continuous unrestrained activity if more than 12 hours of restraint are required. Monkeys used in the protocol are chair-restrained approximately three to ten times per year. All animals are conditioned to this restraint to prevent any distress associated with chairing. The IACUC approved this restraint based upon the scientific requirements for continuous data collection.
- 2. Five ovariectomized female rhesus nonhuman primates will be transferred from a separate protocol to a new protocol that requires two additional survival surgeries over a time period of about two months. The purpose is to study endometriosis so that new treatments may be developed for humans suffering this disorder. The animals will not undergo any further major survival surgery after this protocol is completed. This is an exception to the standards set by the *Guide* and the Laboratory Animal Welfare Act (AWA), 9 CFR, § 2.31 (d)(x). The *Guide* states that multiple major survival surgical procedures on a single animal are discouraged but may be permitted if scientifically justified by the user and approved by the IACUC. The AWA standard states that no animal will be used in more than one major operative procedure unless justified for scientific reasons by the principal investigator, in writing and in special circumstances as determined by the USDA/APHIS Administrator. Both conditions were fulfilled. The USDA/APHIS Administrator approved the request for an exemption under 9 CFR, § 2.31(d)(x) to perform multiple survival surgeries on the five nonhuman primates used in the endometriosis study.

The report is required by law (7 USC 2143). Feature to report according to the regulations can feature to result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 21-R-0082

CUSTOMER NO. 445 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA.

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

include Zip Code) COLUMBIA UNIVERSITY

630 W 168TH ST NEW YORK NEW YORK, NY 10032 (212) 305-3837

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, leeting, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

See Attached Listing

A. Animale Covered By The Animal Welfare Regulations	8. Number of snirule being brief, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	G. Number of animals upon which teaching, research, experiments, or teats were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animate upon which appartments, lesching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analigesic, or tranquitizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery of tests were conducted involving accompanying pean or distress to the animals and for which the use of appropriate areathetic, anelgestic, or tranquitizing drugs would have adventely affected the procedures, results, or interpretation of the teaching, research, expertments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and (the reasons such drugs were not used must be entached to this respont).	F. TOTAL NO. OF ANIMALS (Cols. C+ D+E)
4. Dogs	10	47	436	0	483
5. Cats	0	0	2	0	2
6. Guinea Pigs	0	22	57	0	79
7. Hamsters	0	00	41	0	41
8. Rabbits	0	52	218	0	270
9. Non-Human Primates	6	2	99	0	101
10. Sheep	0	0	6	0	6
11. Pigs	0	0	110	0 (110
12. Other Farm Animals					
Calves	0	00	21	0	21
13. Other Animals					
Perrets	0	2	0	0	2
Gerbils	0	0	3	0 -	3

- Professionally acceptable standards governing the care, treatment, and use of entmills, including appropriate use of enesthetic, analgesic, and tranquitizing drugs, prior 10, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered atternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the institutional Animal Care and the Committee (IACUC). A summery of all this exceptions is estatched to this exercise addition to dentifying the IACUC-approved exceptions, this summery includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other assects of animal care and trie.

	(Chief Executi	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)								
SI	IAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED							

APHIS FORM 7023 (AUG 91)

(Replaces VS FORM 18-23 (Oct 88), which is obsolete

PART 1 - HEADQUARTERS

APHIS Form 7023 Site List

The following sites have been reported by the facility.

Registration Number:

21-R-0082

Customer Number:

445

Facility:

COLUMBIA UNIVERSITY

630 W 168TH ST

NEW YORK NEW YORK, NY 10032

(212) 305-3837

(D) BLACK BLDG. & Ege Institut Anna Gly.
630 WEST 168TH ST
NEW YORK NEW YORK, NY 10032

ST LUKES - ROOSEVELT HOSPITAL - CLARK BLDG - ANTEN 114 ST & AMSTERDAM AVE NEW YORK NEW YORK, NY 10032

ST. LUKES-ROOSEVELT HOSPITAL

AMSTERDAM AVE AND 59TH STREET NEW YORK NEW YORK, NY 10032

SUMMARY OF EXCEPTIONS

October 1, 2000 to September 31, 2001

1. In a single protocol, 12 rhesus monkeys must be chaired for periods greater than 12 hours and less than 24 hours. This is an exception to the standard set by the Laboratory Animal Welfare Act. The Act states that nonhuman primates must be given the opportunity for 1 hour of continuous unrestrained activity if more than 12 hours of restraint are required. Monkeys used in the protocol are chair-restrained approximately three to ten times per year. All animals are conditioned to this restraint to prevent any distress associated with chairing. The IACUC approved this restraint based upon the scientific requirements for continuous data collection.

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to pease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for

Interagency Report Control No. 0180-DDA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 21-R-0082

FORM APPROVED OME NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USCA, include Zip Code)

COLUMBIA UNIVERSITY 630 W 166TH ST

NEW YORK NEW YORK, NY 10032 (212) 305-3837

445

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS(stes)

See Attached Listing

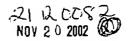
A. Animals Covered By The Animal Western Regulations	Number of animals baing bred, conditioned, or held for use in teaching, heating, experiments, research, of surgery but not yet used for such purposes.	C. Number of swimble upon which beaching; research; superiments, or sets were conducted insolving no pain, distinst, or use of pain, refleving chugs.	Number of animels upon which experiments, loaching, research, surgery, or tests were confused involving accompanying pain or distress to the animals and for which appropriate animalness, analysis, or transplation of transplation of transplation of the service of the s	E. Number of animals upon which teaching, esperiments, research, surgery or sets were conducted involving accompanying pain or distress to the animals and for which the use of approximation arrestment, analysists, or transplating drugs would have adversely affected the procedures, results, or interpretation of the teaching, nesearch, experiments, surgery, or tests, life application of the procedured producing pain or distress or three procedured producing pain or distress or three animals and the reasons such drugs were not used must be attached to the report)	F. TOTAL NO OF ANIMALS [Cols. C + D + E)
4. Dogs	6	65	434	0	499
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	24	46	0	70
7. Hamsterå	0	4	15	. 0	19
8. Rabbits	0	0	100	. 0	100
9. Non-Human Primates	4	0	128	0	128
10. Sheep	0	0	0	0	0
11. Pigs	0	0	196	0	196
12, Other Farm Animals					
calves	. 0	0	37	0	37
13. Other Animals					
gerbils	0	0 ;	25	0	25
	1	<u> </u>		-	-;

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of enesthetic, analgesic, and tranquitizing drugs, prior to, during, and following actual research, leaching, testing, surgery, or experimentation were followed by the research facility.
- 2) Each principal investigator has considered alternatives to painful procedures,
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigation and approximately present the standards are supported and expensive the standards are supported as the samual report, in addition to description, the IACUC-approved exceptions, the summary includes a brief explanation of the exceptions, as well as the species and number of eximital affected.
- The attenting reterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to greate the adequacy of other sepects of annual care and use.

	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL tecutive Officer or Legally Responsible Inatitutional official) / that the above is true, correct, and complete (7 U.S.C. Section 2143)							
SIGNATUR	I NAME E TITLE OR CE O OP METTITIONAL ASSISTAL (Time or Delet	11/19/02						

APHIS FORM 7023 (AUG 91)

(Replaces VS FORM 14-13 (Oct 18), which is obsolute and Dean, Faculty of Medicine PART 1 - HEADQUARTERS



SUMMARY OF EXCEPTIONS

October 1, 2001 to September 31, 2002

- In a single protocol, 12 rhesus monkeys must be chaired for periods greater than 12 hours and less than 24 hours. This is an exception to the standard set by the Laboratory Animal Act. The Act states that nonhuman primates must be given the opportunity for 1 hour of continuous unrestrained activity if more than 12 hours of restraint are required. Monkeys used in the protocol are chair-restrained approximately three to ten times per year. All animals are conditioned to this restraint to prevent any distress associated with chairing. The IACUC approved this restraint based upon the scientific requirements for continuous data collection.
- In a single protocol, 9 rhesus monkeys were fasted (food) one time for36 hours
 to investigate the potential effects of fasting on neuropeptides in the brains of primates.

APHIS Form 7023 Site List

The following sites have been reported by the facility.

Registration Number:

Customer Number:

21-R-0082 445

Facility:

COLUMBIA UNIVERSITY

630 W 168TH ST

NEW YORK NEW YORK, NY 10832

(212) 305-3837

BLACK BLDG. & EYE INSTITUTE 630 WEST 168TH ST NEW YORK NEW YORK, NY 10032

DEC 2 8 2004

DURHAM, NC 27710 **DUKE UNIVERSITY** BOX 3180 DUMC (919) 681-6792 1. REGISTRATION NO. 55-R-0003 This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalises as provided for in Section 2150 ANNUAL REPORT OF RESEARCH FACILITY ANIMAL AND PLANT HEALTH INSPECTION SERVICE UNITED STATES DEPARTMENT OF AGRICULTURE (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attached additional sheets if

FACILITY LOCATIONS (sites)

See Attached Listing

necessary.)

interagency Report Control
No. 0180-DOA-AN
FORM APPROVED OMB NO.
0579-0036 See reverse side for additional information CUSTOMER NO.

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code

(Cols. C+D+E)

teaching, tesearch, surgary, or tests were concluded involving accompanying pain or concluded involving accompanying pain or concluded involving accompanying pain or distributed in fund adversary latefact this procedure, results, or interpretation of the teaching, research, experiments, surgary or tests. An explanation of procedures producing pain or, stress in these animals and the reasons surthings were not used must be attached for t. ". "ort.)

and for which appropriate anesthetic, analgesic, or

involving no pain, distress, or use of

experiments, or research or surg. / but not yet a d'for

Sod

pain-relieving

ranquilizing drugs were

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Guinea Pigs

4 Dogs S 7. Hamsters Rabbits

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6

8

Non-Human Primates

10. Sheep

11. Pigs

80

2

12. Other Farm Animals

8 8 689

TOTAL NO. OF

E. Number of animals upon which experiments

REPORT OF AVIIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILLTY (Altach additional sheets if necessary or use APHIS FORM 7023A)

D. Number of animals upon

C. Number of

animals being

B. Number of

which experiments,

teaching, research, surgery, or tests were conducted involving

research, experiments, or animals upon which teaching.

bred, conditioned, or held for use in teaching, testing,

by the Animal Welfare Animals Covered Regulations

tests were

accompanying pain or distress to the animals

ANIMALS

Goats	3	2	5
13. Other Animals			
Ferrets	9	99	71
Monodelphis	99		99
Tree Shrew	141		141
Gerbil	1	32	28

ASSURANCE STATEMENTS

Professionally acceptable standards governing the care, treatment, and use of enimals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility. e

Each principal Investigator has considered alternatives to painful procedures.

This bactify is achieving to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the institutional Animal Gere and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC exproved exceptions, this summary includes a brief explanation of the exceptions, as well as the spoces and number of animals affected. ন 9

The attending outenharien for this research facility has appropriate authority to ensure the provision of adequate outerinary care and to oversee the adequacy of other espects of animal 4

care and use.		
	CERTIFICATE OF PRINCIPAL INVESTIGATOR	
	Leaffiy that the above is true, correct, and complete (7 U.S.C. Section 2143)	
	NAME & TITLE OF PLOR INSTITUTIONAL OFFICIAL (Type or Print) DATE SIGNED	ATE SIGNED
	121	2/1/04
	The state of the s	DATE COADO MONTO

See attached formation

espency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 74-R-0106 CUSTOMER NUMBER: 9464

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

American Animal Health Inc. 2619 Skyway Drive Grand Prairie, TX 75052

Telephone: (972) -641-5420

-AT. 12-20-02

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or hald for these purpose

FACILITY LOCATIONS (Stee) - See Ateched Listing (Attachment #1)

Animals Covered By The Animal Welfare Regulations	8.	Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	G.	Number of arrivals upon which teaching, research, experiments, or teats were conducted involving no pain, distress, or use or pain-relieving drugs.	D.	Number of arimals upon which experiments, teaching, research, surgery, or teats were conducted imoving accompanying pain or distinss to the arimals an for which appropriate anesthetic, analogatic, or tranquitizing drugs were used.	E	Number of animels upon which leaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquiliz-drug words would have adversely effected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these enimals and the resext such drugs were not used must be attached to this report	#	TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)
4. Dogs							T			
5. Cats							T		-	
6. Guinea Pigs					· ·		T		-	·
7. Hamsters	1.						T		Н	
8. Rabbits						<u> </u>	\vdash			
9. Non-human Primates							\vdash		4	-
0. Sheep							 			
1. Pigs							\vdash			
2. Other Farm Animals				-			-		_	· .
Cattle				30	~		 	*70 (Attachment #2)	_	100
3. Other Animals									_	
Goats				500					_	600
							Щ.			000
										

SIGNATURE OF CLEDY OR INSTITUTIONAL OFFICIAL

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of aniestesic, analgesic, and tranquilizing drugs, prior to, during, and following actual research facility.
- 2) Each principal investigator has considered atternatives to painful procedures
- 3) This facility is achieving to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applicational Animal Care and Use Committee (IACUC). A summercy of all seach exceptions is attached to this animal report. In addition to identifying the IACUC-approved exceptions, this summary in
- 4) The attentiong veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other espects of animal care and use.

G	ENTIFICATION BY HEADQUARTERS RESEAR	CH	FACE	Y OFFIC	TAI
1	(Chief Executive Officer or Legally Responsible	Inne	the stance of	Official 1	

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

PHIS FORM 7023 (Replaces VS FORM 18-27 (OCT 88), 10/03/0

(AUG 91)

American Animal Health, Inc. 2619 Skyway Drive Grand Prairie, TX 75052 U.S.Vet License 315

October 3, 2002

FACILITY LOCATIONS

 Burrer Testing Facility
 O Miles N. on the Hayden Ranch Rd. from the Junction of Tivydale Rd.
 Fredericksburg, TX 78624 Goats

 Chester Spinrath Testing Facility Allerkamp Rd. Comfort, TX 78013 Goats

Farm Place Testing Facility
 8.5 Miles S. & 0.4 Miles West/Junction of Wilson Creek Rd. & FM 1341
 Comfort, TX 78013

Goats

 Fredericksburg Texas Testing Facility Texas State Hwy 16 Fredericksburg, TX 78624 Cattle & Goats

Hillingdon Ranch Testing Facility
 346 Giles Ranch Rd.
 Comfort, TX 78013

Goats

6.) Johnson City Texas Testing Facility Rt. 1, Box 770 Johnson City, TX 78636 Goats

7.) Laboratory Animal Testing and Storage Facility
Building #3
 2625 Skyway Drive
Suite 102
Grand Prairie, TX 75052

Guinea Pigs & White Mice

American Animal Health, Inc. 2619 Skyway Drive Grand Prairie, TX 75052 U.S.Vet License 315

October 3, 2002

Squaw Creek Testing Facility
 8 Miles South of Junction of Doss Rd.
 (FM648) and Squaw Creek Rd.
 Doss, TX 78618

Goats

 Stieler Place Testing Facility
 Miles S. on Hwy 87 from junction of Highway St. and Hwy 87 Comfort, TX 78018 Goats

10.) White Oak Testing Facility5 Miles S. of the Junction of Tivydale Rd.(FM 2093) & White Oak Rd.Fredericksburg, TX 78624

Goats

American Animal Health, Inc. 2619 Skyway Drive Grand Prairie, TX 75052 U.S.Vet License 315

October 3, 2002

Attachment #2

* Host animal immunogenicity studies for Pasteurella Haemolytica Bacterin-Toxoid and Mycoplasma Bovis Bacterin have to be done by challenge protection evaluation as required by the U.S.D.A. Both vaccinated and non-vaccinated cattle have to go through the challenge stress for 4 days for P. haemolytica and 14 days for Mycoplasma bovis before being euthanized by captive bolt stunning and necropsied to evaluate the lung lesions.